

Ex Libris David T. Craig

"\_17.PICT" 739 KB 2001-09-10 dpi: 600h x 600v pix: 4402h x 5871v

Source: David T. Craig

Page 0001 of 0006

# Apple /// Disassembler

5 pages

By Andy Wells

```
: ASM
                                        APPLE /// DISASSEMBLER
                                 * BY ANDY WELLS
* Modified from Apple II dism
                                    CALL -A.P.P.L.E. * OCT. 1981
                                  ****************
                                 * This program will replace

* the Apple II monitor L com-

* mand in the Apple //. Type

* in the data while in the em-

* ulator and BSAVE it on a 3.3

* disk. To reload go into the

* emulator and BRUN this pro-
                                 * gram, then enter the Apple

* /// monitor by pressing the

* Open Apple, Ctrl, and Reset

* keys. Use this disassembler
                                 * just like the Apple 10 dis-
                                 * assembler, substituting the * U key for the L command.
                                 * See Apple 1[ Ref. Manual
                                 * for comments to source.
                                 LMNEM
                                               EQU
                                 RMNEM
                                                EQU
                                 FORMAT
                                 LENGTH
                                                EQU
                                 PCL
                                                EQU
                                 PCH
                                                EQU
                                 USRADR
                                               EQU
                                                       $3F8
                                                       $F9D6
                                 A 1 PC
                                                EQU
                                PRBYTE
SAVOUT
                                                       SF9AE
SFC39
                                               EQU
                                                EQU
                                 CHKKED
                                               EQU
                                                       SECEF
                                               ORG $9000
9000: A9 4C
                                START
                                               LDA
                                                       # $ 4C
9002: 8D F8 03
                                               STA
                                                       USRADR
9005: A9
                                               LDA
                                                       # (LIST
9007: 8D F9 03
                                               STA
                                                       USRADR+1
900A: A9 90
                                               LDA
                                                       #)LIST
900C: 8D FA 03
                                               STA
                                                       USRADR+2
900F: 60
9010: 20 D6 F9
                                LIST
                                               JSR
                                                       AIPC
9013: A9 14
                                                       * 14
                                               LDA
9015: 48 60
9016: 20 7D 90 61
9019: 20 00 91 62
                                LIST2
                                               PHA
                                               JSR
                                                       INSDSP
```

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"\_18.PICT" 453 KB 2001-09-10 dpi: 600h x 600v pix: 4454h x 6391v

# APPLE /// DISASSEMBLER

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1 60 4 7				,,			
901C				63 64		ST A STY	
9020	: 68		•	65		PLA	
9021				66		SEC	
9022				67 68		SBC BNE	#\$01
9026	: 40					JMP	LIST2 CHKKBD
				70	t		
9029 902B				71	SCRN2	BCC	RTMSKZ
902C				72 73		LSR LSR	
902D	4 A			74		LSR	
902E:	• • • • •			75		LSR	
902F:				76 77	RTMSKZ	AND	# \$ O F
				78	t	RTS	
9032:		72		79	INSDS 1	LDX	PCL
9034:		73 0F	91	80 81		LDY	PCH
9039	20		90			JSR JSR	PRYX2 PRBLNK
903C:	A 1	72		83	INSDS 2	LDA	(PCL, X)
903E:				84		TAY	
903F:				85 86		LSR	7 27 17 20 17
9042:				87		BCC ROR	IEVEN
9043:	BO	10		88		BCS	ERR
9045:	C9 F0	A2 OC		89		CMP	# \$ A 2
9049:	29	87		90 91		BEQ	ERR # \$ 8 7
904B:	4 A	٠.		92	IEVEN	LSR	¥ 7 U /
904C:	λA			93		TAX	
904D: 9050:	BD 20	1 C	9 1 9 0	94 95		LDA	FMT1,X
9053:	DO	04	, ,	96		JSR BNE	SCRN2 GETFMT
9055:	AO	80		97	ERŖ	LDY	#\$80
9057:	A9 AA	0 0		98	in the state of the state of	LDA	# \$ 0 0
905A:	BD	60	91	99 100	GETFMT	TAX LDA	FMT2,X
905D:	85	56	•	101		STA	FORMAT
905F:	29	03		102		AND	# \$ 03
9061:	85 98	57		103		ST A Ty A	LENGTH
9064:	29	8 F		105		AND	# \$ 8 F
9066:	λλ	,		106		TAX	
9067:	98 AO	03		107		TYA	***
906A:	EO	8 A		108		LDY CPX	# \$ 0,3 # \$ 8 A
906C:	FO	0 B		110		BEQ	MNNDX3
906E:	4 A	0.8		111	MNNDX 1	LSR	
9071:	90 4 A	V 8		112		BCC LSR	MNND X 3
9072:	4 A			114	MNNDX2	LSR	
9073:	09	20		115		ORA	#\$20
9075:	8 8 D0	FÀ		116		DEY	MINIT -
9078:	C8			117		BN E I N Y	MNNDX 2
9079:	88			119	MNNDX 3	DEY	
907A:	DO	F 2		120		BNE	MNNDX1
907C:	60			121	<b>*</b>	RTS	
907D:	20	32	90	123	INSDSP	JSR	INSDS1
9080:	48			124		PHA	
9081: 9083:	B1 20	72 AE	<b>P</b> 0	125	PRNTOP	LDA	(PCL),Y
9086:	A2	0 1	F 9	126 127		JSR LDX	PRBYTE
9088:	20	£ 7	90	128	PRNTBL	JSR	PRBL2
908B:	C4	57		129		CPY	LENGTH
908D: 908E:	C8 70	F 1		130		I NY BC C	PRNTOP
9090:	A2	03		132		LDX	# \$ 03
9092:	CO	04		133		CPY	#504
9094: 9096:	90 68	F 2		134 135		BCC	PRNTBL
9097:	X8			136		PL A Tay	
9098:		7 A	91	137		LDA	MNEML, Y
				-			. •

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"\_19.PICT" 888 KB 2001-09-10 dpi: 600h x 600v pix: 4572h x 6368v

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909B:	85	54		138		STA	LMNEM
909D:	89					LDA	MNEMR, Y
90A0:	85			140		STA	RMNEM
90 A2:	19	00		141	NXTCOL	LDA	# \$ 0 0
9014:	λO	05		142		LDY	# \$ 05
90 A6:	06			143	PRMN2	ASL	RMNEM
90A8:	26			144		ROL	LMNEH
90 AA:	2 A			145		ROL	
90 AB:	88			146		DEY	
90 AC:	DO			147		BNE	PRMN2
90AE:	69		40	148		ADC	# \$ BF
90 B0:	20	39	FC			JSR Dex	SAVOUT
90B3:	CA DO			150 151		DEX BNE	NXTCOL
90B4:	20		90			JSR	PRBLNK
90B9:	A 4		, .	153		LDY	LENGTH
90BB:	A2	06		154		LDX	# \$ 0 6
90 BD:	EO	03		155	PRADR1	CPX	#\$03
90BF:	FO			156	• ••••	BEQ	PRADR5
90C1:	06	56		157	PRADR2	ASL	FORMAT
90C3:	90	0 E		158	-	BCC	PRADR3
90 C5:	BD	6 D		15 9		LDA	CHAR1-1, X
90C8:	20			160		JSR	SAVOUT
90 CB:	BD		91	161		LDA	CHAR2-1, X
90CE:	FO	03		162		BEQ	PRADR3
90 D0:	20	39	FC			JSR	SAVOUT
90D3:	CA			164	PRADRS	DEX	nn
90D4:	DO	E7		165		BNE	PRADR1
. פעטל	60			166 167	*	RTS	
9007:	88			168	PRADR4	DEY	
9007:	30	£7		169	FRAL	BWI	PRADR2
90DA:	20	AE	F9			JSR	PRBYTE
90 DD:	A5	56	•	171	PRADR5	LDA	FORMAT
9 0 DF :	C9	E 8		172	• • • • •	CMP	# 5 E 8
90E1:	B 1	72		173		LDA	(PCL),Y
90E3:	90	F 2		174		BCC	PRADR4
90E5:	20	03	91	175	RELADR	JSR	PCADJ3
90E8:	AA			176	· .	TAX	<del>-</del>
90E9:	E 8			177		INX	
90EA:	DO	01		178		BNE	PRNTYX
90EC:	C 8			179		INY	
90ED:	98 20	* 12	<b>"</b> 0	180	PRNTYX	TYA	~ comp pp
90EE:	20 8 A	λE	F 9	181 182	PRNTAX	JSR TYA	PRBYTE
90F1:	8 A 4 C	AE	F9	182 183	PRNTX	TXA JMP	PRBYTE
70	40	AL	Ι,	183 184	t	Vn.	PRDILL
90F5:	A2	03		185	PRBLNK	LDX	# \$ 0 3
90F7:	A9	AO		186	PRBL2	LDA	# \$ A O
90F9:	20	39	FC	187	PRBL3	JSR	SAVOUT
90FC:	CA		-	188	•	DEX	
90FD:	DO	F 8		189		BNE	PRBL2
90FF:	60			190		RTS	-
1				191	*		
9100:	38			192	PCADJ	SEC	·· =- •
9101:	A5	57		193	PCADJ2	LDA	LENGTH
9103:	A 4	73		194	PCADJ3	LDY	PCH
9105:	AA 10	- 1		195		TAX	N 14
9106:	10	0 1		196		BPL	PCADJ4
9108:	88 65	72		197 198	PCADJ4	DE Y ADC	PCL
9109: 910B:	90	01		198 199	Punne.	BCC	PCL RTS 2
910D:	C8	٧.		200		INY	Riba
910E:	60			201	RTS2	RTS	
/*	• -			202	# #	M . ~	
910F:	20	EF	FC	203	PRYX2	JSR	CHKKBD
9112:	20	ED	90	204	• ••	JSR	PRNTYX
9115:	AO	00	•	205		LDY	#\$00
9117:	A9	AD		206		LDA	# \$ AD
9119:	4C	39	FC	207		JMP	SAVOUT
				208	t		



### **MEMORY-PAGE-EDITOR**

(V1.3) (Written by LEE BASS and JOE GARNERO)

MPE is a compact (2.2K) machine language programming utility. Designed for the experienced programmer as well as the novice, it extends the power of disk access and program editing. MPE is simple to use, a single keystroke is all that is required to edit, read or write a sector or send the display to a printer.

MPE's display consists of a current status line that is visible at all times. It shows the current address range, the last track and sector accessed, the drive number and location of the DOS BUFFER. It also displays a HEX and ASCII dump of the current address range (80 hex bytes). MPE scrolls through memory faster than any program currently available, updating the display every new page allowing a visible search for occupied or free memory.

MPE's editor is capable of editing in HEX, positive and negative ASCII (i.e. high bit set or clear). Editing is accomplished through direct memory access. This means that the display is the editing buffer and scanning memory for programs is as simple as pressing one of the arrow keys. No more memory moves to get your program into a fixed buffer, MPE puts the buffer where your program is.

MPE's disk access module supports two drives and multiple buffers. This provides complete freedom for comparing two disks or transfering sectors from to disk to disk. The number of disk buffers are limited only by the free memory available. With a simple keystroke the DOS buffer can be relocated to the current video display.

MPE also allows zeroing a block of memory (100 HEX bytes) with a single keystroke. A USER function is provided to allow the programmer to incorporate his own routines into MPE.

MPE is a powerfull program for POST-EDITING basic or machine language programs as well as a disk access utility. It allows undeleting files, renaming files, creating files and any other use, limited only by your IMAGINATION and INGENUITY.

Never before has such a versatile and powerful program been created with the user in mind. MPE comes with a manual describing its operation and step by step examples of how to use it.

Required 48K Apple ] [ with 1 or 2 drives. (32K available on request) MPE supports DOS 3.2, 3.2.1, 3.3 and the LANGUAGE SYSTEM.

MEMORY-PAGE-EDITOR (MPE) ...... \$49.95

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APPLESOFT: 30.3 MIN. MICROSPEED II: 3.9 MIN. MICROSPEED II+: 2.4 MIN.



FASTEST: 100
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EXPANDABLE:
CREATIVE: Management
USER-FRIENDLY:



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	State	. Zip								

# APPLE /// DISASSEMBLER

				C				54				
				F		-		80				
				2			) O	- 4	209	FMT1	HEX	0420,5430,0D80,0490
				7				54 30				
				À			0	, U	210	1	115.4	AAAA
				C				5 4	-10	,	HEX	0322,5433,0D80,0490
				Ē:				0				
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	9	) :	1 3	4 :	: 0	4 2	20 5	4				0120,0133,0060,0490
				7 :			D 8	0				
				À:			0		212	;	HEX	0420,543B,0D80,0490
				<u>c</u> :				14				
				F :				8	<b>.</b>			
				2 : 4 :		_	0		213		HE X	0022,4433,0DC8,4400
				7 :	3:		2 4 D C	4				
i				À:	4		_		214		***	
	ġ	ī	4	C:	0		_	4	4		HEX	1122,4433,0DC8,44A9
ı				F :	3 :	_	-					
				2 :	0.4	_		-	215		HEX	0177 4423 ADED A40A
-	9	1	5	4 :	0 1	2	2 4	4				0122,4433,0D80,0490
- 1				7 :	3 3	3 0	D 8	0				
				<b>A</b> :	0 4			- 1	216		HE X	0122,4433,0D80,0490
:				:	26	_	18					,,,,,,,
-	7	1	5	:	93	<b>L</b>			217		HEX	2631,879A
-			,	٠.					218	*		
			61		0 ( 8 2							
-			61		59				119	FWTO	***	
1			61		91				,	FMT2	HE X	0021,8182,0000,594D
1	9	1	61	1:	4 A		_		220		HE X	9192 8/41 8FOD
1								_	221	*	W. A.	9192,864A,859D
1			6 I		A C	. A	9 A	C				
1	9	1	7 1	:	λЗ	N.	B A		122	CHAR1	HEX	ACA9,ACA3,A8A4
1	۰		7 4						223	*		,, ,
1			77 77		D9	0 ( A 4			2.4	6W > 5 4		
1	•	•	, ,	•	~ 7		8 60		24	CHAR2	HEX	D900, D8A4, A400
1	9	1	7 A	:	1 C	. 87	1 10			•		
1	9 1				23							
	9 1				1 B				26	MNEML	HE X	1C8A, 1C23, 5D8B, 1BA1
	9	1	8 2	:	۶D	8 8	11					TCOX, TC23, JD6B, IBAI
	9 1				23	9 E						
	91				1 D	A 1			27		HE X	9D8A, 1D23, 9D8B, 1DA1
	9 1 9 1				00	29						
	7 <u>1</u> 9 1				AE 19	69 23			2 8			
	9 1				24	53			28		HEX	0029,19AE,69A8,1923
	91				23	2 4						
	9 1				19	À1			29		HE X	2452 1822 2452 4014
1	9 1	15	λ	:	00	1 A	. 5 E					2453,1823,2453,1911
	91				5 B	A5	69					
	91				24	24			3 0		HEX	001A, 5B5B, A569, 2424
	9 1 9 1				AE	AE						
	, <u>1</u>				AD 7C	29	0.0	-				
	9 1				15	70	6 D		3 1		HEX	AEAE, A8AD, 2900, 7C00
	7 1				9 C	A5	69					
	7 1				29	53		2 :	3 2 -		HEX	159C, 6D9C, A569, 2953
	9 1				84	13	34					107C, 0D7C, R367, 2733
	1				11	A5	69					
1	1	В	5	:	23	λO			3 3		HEX	8413,3411,A569,23A0
	1	p			D8	62			3 4	t		
	1				48	26	5 A 6 2					•
	i				94	88	0.4	2 2	3 5	MNEMR	urw	D8/9 E348 D//D 040-
	1				54	44	C8	•		·WEUV	HEX	D862,5A48,2662,9488
	1				54	68	44					
	1				E 8	94		23	8 6		HEX	5444,C854,6844,E894
	1				00	B4	8.0					
	1				84	74	B4					
,		ان	<b>J</b> .		28	6 E		23	7		HE X	00B4,0884,74B4,286E

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"\_21.PICT" 791 KB 2001-09-10 dpi: 600h x 600v pix: 4537h x 6415v

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### APPLE /// DISASSEMBLER

	91D2: 91D5:		F4				
	91 D8:				238	HEX	74F4,CC4A,72F2,A48A
			11 74				
	91 EO:				239	HEX	00AA, A2A2, 7474, 7472
	91E2: 91E5:	32		B 2 0 0			
		22			240	HE X	4468, B232, B200, 2200
		1A 26	1 A 7 2				
	91F0:	8.8			241	HE X	1A1A, 2626, 7272, 88C8
		C4 48		26 44			
!	91F8:		C8	••	242	HEX	C4CA, 2648, 4444, A2C8
							, , , , , , , , , , , , , , , , , , , ,

-- END ASSEMBLY --

ERRORS: 0

# Super Paddle

Are the paddle controllers on your Apple wearing out? Or did you get a new Apple without paddles?

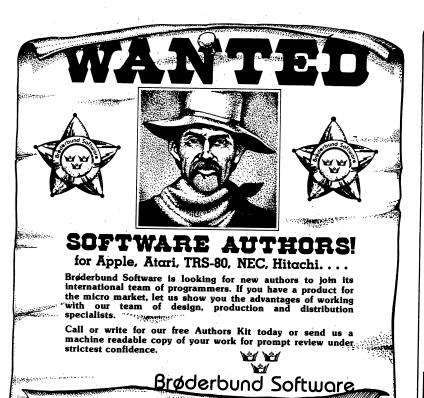
We've got good news for you! Super Paddles. Each paddle control consists of a high-precision linear potentiometer and a big (1/2" D) industrial-quality pushbutton mounted in a sturdy 4" x 2" x 1" metal case which matches the Apple. Each of the two paddles is connected with a long 5-foot cable to the Apple paddle socket.

Every component in a set of Super Paddles is the very finest quality available. The set is backed by a 90-day limited warranty from the manufacturer as well as Peripherals Plus' moneyback guarantee of satisfaction.

To order, send \$39.95 plus \$2.00 postage and handling (NJ residents add \$2.00 sales tax) to the address below. Credit card customers may call orders to our toll-free number.

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### **Blank Cassettes**

The quality of cassette tape used to save and load programs is an important factor in getting the programs to run. Tape quality for computers is measured differently from quality for audio tape. The tape must be capable of sending to the computer the electronic signals of the program without transmitting extraneous noises that could interfere with the ability of the computer to load the tape.

Our blank cassettes are tested and recommended for computer use. C-10 cassette, 5 min. per side, blank label on each side in a Norelco hard plastic box. [0010] \$1.25 each.

### **Head Cleaner**

After hours of use, the read/write head in a cassette recorder will pick up minute particles of tape oxide. This dirt will hardly be noticable in dictation or music. But it is very noticable in computer use. One dropped bit in 16,000, and the program won't load.

Help keep your recorder in top shape with our non-abrasive head cleaner. It consists of 18 inches of stiff cleansing fabric in a standard cassette shell. One 10-second pass every 40 hours of use will keep your heads as good as new. [0011] \$2.00.

### Peripherals Plus

Morris Plains, NJ 07950

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"\_22.PICT" 986 KB 2001-09-10 dpi: 600h x 600v pix: 4603h x 6343v

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